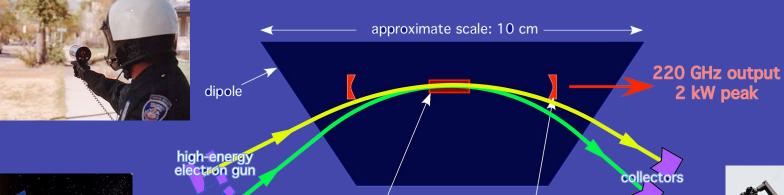
## Structure Fabrication

An alternative approach is to use a two-beam interaction.

This technique does not require a structure.







Efficiency depends on the extraction technique.

Without synchronous extraction, we expect 5% efficiency.

structure-less

beampipe

With synchronous extraction, we expect up to 20% efficiency.

partially

transmitting

mirror



low-energy electron gun

Two ~20-kV, 2-A guns.

Simple design and construction.

Narrow bandwidth.

Somewhat less efficient.

